Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08A (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~ Slobodyansky
Attorney Docket Number	4599.014

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
SD	AA	5,314,876		Lormeau, et al.	05/24/1994	
SD	AB	5,384,398		Lormeau, et al.	01/24/1995	
SD	AC	5,876,433		Lunn	03/02/1999	
SD	AD	5,958,899		Zoppetti, et al.	09/28/1999	
SD	AE	6,120,536		Ding, et al.	09/19/2000	
SD	AF	6,156,373		Zhong, et al.	12/05/2000	
SD	AG	6,162,797		Zopetti, et al.	12/19/2000	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Office[3]	Number[4]	Kind Code[5] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] See attached Kinds of U.S. Patent Documents. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Mail Stop - IDS
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~
Attorney Docket Number	4599.014

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EJ	AA	VANN, W.F., et al.: The Structure of the Capsular Polysaccharide (K5 Antigen) of Urinary-Tract-Infective Escherichia coli 010:K5:H4. Biochem J. 116:359-364 (1981).	
	AB	FAREED, J.: Heparin, Its Fractions, Fragments and Derivatives. Some Newer Perspectives. Seminars in Thrombosis and Hemostasis. 11(1):1-9 (1985).	
	AC	ROBERTS, I., et al.: Molecular Cloning and Analysis of Genes for Production of K5, K7, K12, and K92 Capsular Polysaccharides in Escherichia coli. J. Bacteriology. 168(3):1228-1233 (1986).	
	AD	ROBERTS, I.S., et al.: Common Organization of Gene Clusters for Production of Different Capsular Polysaccharides (K Antigens) in Escherichia coli. J. Bacteriology. 170(3):1305-1310 (1988).	
	AE	KRONCKE, K.D., et al.: Expression of the Escherichia coli K5 Capsular Antigen: Immunoelectron Microscopic and Biochemical Studies with Recombinant E. coli. J. Bacteriology. 172(2):1085-1091 (1990).	
	AF	SMITH, A.N., et al.: Molecular analysis of the Escherichia coli K5 kps locus: identification and characterization of an inner-membrane capsular polysaccharide transport system. Molecular Microbiology. 4(11):1863-1869 (1990).	
	AG	KUSCHE, M., et al.: Biosynthesis of heparin. Use of Escherichia coli K5 capsular polysaccharide as a model substrate in enzymic polymer-modification reactions. Biochem J. 275(pt1):151-8 (1991).	
	AH	SOLDANI, G., et al.: Experimental and Clinical Pharmacology of Glycosaminoglycans (GAGs). Drugs Exptl. Clin. Res. XVII(1):81-85 (1991).	
	AI	LIDHOLT, K., et al.: Biosynthesis of heparin. The D-glucuronosyl- and N-acetyl-D-glucosaminyltransferase reactions and their relation to polymer modification. Biochem J. 287(pt 1):21-9 (1992).	
	AJ	BRONNER, D., et al.: Synthesis of the K5 (group II) capsular polysaccharide in transport-deficient recombinant Escherichia coli. FEMS Microbiology Letters 113:279-284 (1993).	
EJ	AL	LIND, T., et al.: Biosynthesis of Heparin/Heparan Sulfate. The Journal of Biological Chemistry. 268(28):20705-20708 (1993).	

Examiner Signature	E. Shee	Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~
Attorney Docket Number	4599.014

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EJ	AM	PANDIT, K.K., et al.: Capsular hyaluronic acid in Pasteurella multocida type A and its counterpart in type D. Research in Veterinary Science. 54:20-24 (1993).	
	AN	CASU, B., et al.: Heparin-like compounds prepared by chemical modification of capsular polysaccharide from E. coli. Elsevier Science. 263:271-284 (1994).	
	AO	LIDHOLT, K., et al.: Substrate specificities of glycosyltransferases involved in formation of heparin precursor and E. Coli K5 capsular polysaccharides. Carbohydrate Research. 255:87-101 (1994).	
	AP	RIMLER, R.B.: Presumptive Identification of Pasteurella multocida serogroups A, D and F by capsule depolymerisation with mucopolysaccharidases. Veterinary Record.134:191-192 (1994).	
	AC	AHN, J., et al.: Cloning of the putative tumor suppressor gene for hereditary multiple exostoses (EXT1). Nat. Genet. 11(2):137-43 (1995).	
	AR	PETIT, C., et al.: Region 2 of the Escherichia coli K5 capsule gene cluster encoding proteins for the biosynthesis of the K5 polysaccharide. Molecular Microbiology. 17(4):611-620 (1995).	
	AS	RAZI, N., et al.: Structural and functional properties of heparin analogues obtained by chemical sulphation of Escherichia coli K5 capsular polysaccharide. Biochem J. 309 (pt2):465-72 (1995).	
	AT	RIMLER, R.B., et al.: Influence of chondroitinase on direct hemagglutination titers and phagocytosis of Pasteurella multocida serogroups A, D and F. Veterinary Microbiology. 47:287-294 (1995).	
	AU	STICKENS, D., et al.: The EXT2 multiple exostoses gene defines a family of putative tumor suppressor genes. Nat. Genet. 14(1):25-32 (1996).	
	AV	CLINES, G.A., et al.: The Structure of the Human Multiple Exostoses 2 Gene and Characterization of Homologs in Mouse and Caenorhabditis elegans. Cold Spring Harbor Laboratory Press. 7:359-367 (1997).	
EJ	AW	WISE, C.A., et al.: Identification and Localization of the Gene for EXTL, a Third Member of the Multiple Exostoses Gene Family. Cold Spring Harbor Laboratory Press. 7:10-16 (1997).	

Examiner Signature	E. J	Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 4 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	1653
Examiner Name	Not Yet Assigned
Attorney Docket Number	4599.014

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	AX	~~WYATT TECHNOLOGY CORPORATION~~: Heparin Characterization. 4/5; www.tigc.org.	
EJ	AY	GRIFFITHS, G., et al.: Characterization of the Glycosyltransferase Enzyme from the Escherichia coli K5 Capsule Gene Cluster and Identification and Charaterization of the Glucuronyl Active Site. The Journal of Biological Chemistry, 273(19):11752-11757 (1998).	
	AZ	LIN, X, et al.: Expression and functional analysis of mouse EXT1, a homolog exostoses type 1 gene. Biochem Biophys Res Commun.; 248(3):738-43 (1998).	
	BA	LIND, T., et al.: The Putative Tumor Suppressors EXT1 and EXT2 Are Glycosyltransferases Required for the Biosynthesis of Heparan Sulfate. The Journal of Biological Chemistry, 273(41):26265-26268 (1998).	
	BB	McCORMICK, C., et al.: The putative tumor suppressor EXT1 alters the expression of cell-surface heparan sulfate. Nat. Genet. 19(2):158-61 (1998).	
	BC	RIGG, G.P., et al.: The localization of KpsC, S and T, and KfiA, C and D Proteins Involved in the biosynthesis of the Escherichia coli K5 capsular polysaccharide: evidence for a membrane-bound complex. Microbiology 144, 2905-2914 (1998).	
	BD	VAN HUL, W., et al.: Identification of a Third EXT-like Gene (EXTL3) Belonging to the EXT Gene Family. Genomics. 47(2):230-7 (1998).	
	BE	FINKE, A., et al.: Biosynthesis of the Escherichia coli K5 Polysaccharide, a Representative of Group II Polysaccharides: Polymerization In Vitro and Characterization of the Product. Journal of Bacteriology. 4088-4094 (1999).	
	BF	KITAGAWA, H., et al.: The Tumor Suppressor EXT-like Gene EXTL2 Encodes an 1, 4-N-Acety1hexosaminyltransferase That Transfers N-Acetylgalactosamine and N-Acetylglucosamine to the Common Glycosaminoglycan-Protein Linkage Region. The Journal of Biological Chemistry. 273(20):13933-	
	BG	LINHARDT, R.J., et al.: Production and Chemical Processing of Low Molecular Weight Heparins. Thieme Medical Publishers, Inc. 25(3):5-16 (1999).	
EJ	BH	NADER, H.B., et al.: New insights on the specificity of heparin and haparan sulfate lyases from Flavobacterium heparinum revealed by the use of synthetic derivatives of K5 polysaccharide from E. coli and 2-O-desulfated heparin. Glycoconj J. 16(6):265-70 (1999) .	

Examiner Signature	E. Sz	Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~
Attorney Docket Number	4599.014

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	BI	SIMMONS, A.D., et al.: A director interaction between EXT proteins and glycosyltransferases is defective in hereditary multple exostoses. Hum. Mol. Genet. ; 8(12):2155-64 (1999).	
	BJ	SONG, G., et al.: Identification of mutations in the human EXT1 and EXT2 genes. Chin J. Med. Genet., 16(4):208-10 (1999).	
	BK	BOYCE, J.D., et al.: Pasteurella multocida capsule: composition, function and genetics. Journal of Biotechnology 83:153-160 (2000).	
	BL	HAGNER-McWHIRTER A., et al.: Biosynthesis of heparin/heparan sulfate: kinetic studies of the glucuronyl C5-epimerase with N-sulfated derivatives of the Escherichia coli K5 capsular polysaccharide as substrates. Glycobiology. 10(2):159-71 (2000).	
	BM	HODSON, N., et al.: Identification That KfiA, a Protein Essential for the Biosynthesis of the Escherichia coli K5 Capsular Polysaccharide, Is a UDP-GlcNAc Glycosyltransferase. The Journal of Biological Chemistry, 275(35):27311-27315 (2000).	
	BN	LEGEAI-MALLET L., et al.: EXT 1 Gene Mutation Induces Chondrocyte Cytoskeletal Abnormalities and Defective Collagen Expression in the Exostoses. J Bone Miner Res. 15(8):1489-500 (2000).	
	BO	LIN, X, et al.: Disruption of gastrulation and heparan sulfate biosynthesis in EXT1-Deficient Mice. Dev. Biol. 224(2):299-311 (2000).	
	BP	McCORMICK, C., et al.: The putative tumor suppressors EXT1 And EXT2 form a stable complex that accumulates in the Golgi apparatus and catalyzes the synthesis of heparan sulfate. PNAS, 97(2):668-673 (2000).	
	BQ	PEDERSEN, L.C., et al.: Heparan/Chondroitin Sulfate Biosynthesis. The Journal of Biological Chemistry, 275(44):34580-34585 (2000).	
	BR	SASISEKHARAN, R., et al.: Heparin and heparan sulfate: biosynthesis, structure and function. Elsevier Science, Ltd. 1367-5931:626-631 (2000).	
	BS	SENAY, C., et al.: The EXT1/EXT2 tumor suppressors: catalytic activities and role in heparan sulfate biosynthesis. EMBO Reports 1(3):282-286 (2000).	

Examiner Signature		Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 7

Complete if Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~
Attorney Docket Number	4599

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EJ	BT	TOYODA, H., et al.: Structural Analysis of Glycosaminoglycans in Drosophila and Caenorhabditis elegans and Demonstrations That tout-velu, a Drosophila Gene Related to EXT Tumor Suppressors, Affects Heparan Sulfate in Vivo. The Journal of Biological Chemistry, 275(4):2269-2275 (2000).	
	BU	WEI, G., et al.: Location of the Glucuronosyltransferase Domain in the Heparan Sulfate Copolymerase EXT1 by Analysis of Chinese Hamster Ovary Cell Mutants. The Journal of Biological Chemistry, 275(36):27733-27740 (2000).	
	BV	BIO TIE THERAPIES; BioHeparin - Prospectus; June 2001. (Finland)	
	BW	CHEUNG, P.K., et al.: Etiological Point Mutations in the Hereditary Multiple Exostoses Gene EXT1: A Functional Analysis of Heparan Sulfate Polymerase Activity. Am. J. Hum. Genet. 69:55-66, (2001).	
	BX	DUNCAN, G., et al.: The link between heparan sulfate and hereditary bone disease: finding a function for the EXT family of putative tumor suppressor proteins. The Journal of Clinical Investigation, 108(4):511-516 (2001).	
	BY	KIM, B.T., et al.: Human tumor suppressor EXT gene family members EXTL1 and EXTL3 encode alpha 1,4-N-acetylglucosaminyltransferases that likely are involved in heparan sulfate/heparin biosynthesis. Proc. Natl. Acad. Sci. U.S.A. 1998(13):7176-81 (2001).	
	BZ	KITAGAWA, H., et al.: rib-2, a Caenorhabditis elegans Homolog of the Human Tumor Suppressor EXT Genes Encodes a Novel 1,4-N-Acetylglucosaminyltransferase Involved in the Biosynthetic Initiation and Elongation of Heparan Sulfate. The Journal of Biological Chemistry, 276(7):4834-4838 (2001).	
	CA	LEALI, D., et al.: Fibroblast Growth Factor-2 Antagonist Activity and Angiostatic Capacity of Sulfated Escherichia coli K5 Polysaccharide Derivatives. The Journal of Biological Chemistry, 276(41):37900-37908 (2001).	
	CB	MAY, B.J. et al. Complete genomic sequence of Pasteurella multocida, Pm70. Proc. Natl. Acad. Sci. 98(6):3460-3465 (2001).	
	CC	NAGGI, A., et al.: Toward a Biotechnological Heparin through Combined Chemical and Enzymatic Modification of the Escherichia coli K5 Polysaccharide. Seminars in Thrombosis and Hemostasis, 27(5):437-443 (2001).	
EJ	CD	TOWNSEND, K.M. et al. Genetic organization of Pasteurella multocida cap loci and development of a multiplex capsular typing system. J. Clin. Microbiol. 39(3):924-929 (2001).	

Examiner Signature	E. Sackey	Date Considered	12/20/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Express Mail: EV 373446199 US
Date Deposited: 11/30/2004

PTO/SB/08B (08-00)
Approved for use through 10/31/2002. OMB 0651-0031
U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 7 of 7

Complete If Known	
Application Number	10/814,752
Filing Date	03/31/2004
First Named Inventor	Paul DeAngelis
Group Art Unit	~~1653~~ 1652
Examiner Name	~~Not Yet Assigned~~
Attorney Docket Number	4599.014

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
EL	CE	VAN AKEN, H., et al.: Anticoagulation: The Present and Future. Clin. Appl. Thrombosis/Hemostasis, 7(3):195-204, (2001).	
	CF	DeANGELIS, P.L., et al.: Identification of the capsular polysaccharides of Type D and F Pasteurella multocida as unmodified heparin and chondroitin, respectively. Carbohydrate Research 337:1547-1552 (2002).	
	CG	DeANGELIS, P.L., et al.: Identification and Molecular Cloning of a Heparosan Synthase from Pasteurella multocida Type D. The Journal of Biological Chemistry. 277(9):7209-7213 (2002).	
	CH	HILL, A.L., et al.: Identification of the Xenopus laevis cDNA for EXT1: A Phylogenetic Perspective. DNA Sequence, 13 (2):85-92 (2002).	
EL	CI	JING, W., et al.: Structure function analysis of Pasteurella glycosaminoglycan synthesis. Glycobiology 12: abstract 188 (2002).	
	CJ	KATADA, T., et al.: cDNA cloning and distribution of XEXT1, the Xenopus homologue of EXT1. Dev Genese Evol. 212:248-250 (2002).	
	CK	KIM, B-T, et al.: Demonstration of a Novel Gene DEXT3 of Drosophila melanogaster as the Essential N-Acetylglucosamine Transferase in the Heparan Sulfate Biosynthesis. The Journal of Biological Chemistry, 277(16):13659-13665 (2002).	
	CL	POGGI A., et al.: Inhibition of B16-BL6 melanoma lung colonies by semisynthetic sulfaminoheparosan sulfates from E. Coli K5 polysaccharide. Semin Thromb Hemost. 28(4):383-92 (2002).	
	CM	SUGAHARA, K., et al.: Heparin and Heparan Sulfate Biosynthesis. Life, 54:163-175 (2002).	
	CN	ZAK, B.M., et al.: Hereditary multiple exostoses and heparan sulfate polymerization. Biochimica et Biophysica Acta 1573:346-355 (2002).	
EL	CO	VICENZI, E., et al.: Broad spectrum inhibition of HIV-1 infection by sulfated K5 Escherichia coli polysaccharide derivatives. AIDS. 17(2):177-81 (2003).	

Examiner Signature	E. Sley	Date Considered	12/20/07

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] Unique citation designation number. [2] Applicant is to place a check mark here if English language Translation is attached.

SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.